

63-20331

Dufour, René, Verron, Marcel, and Magonrou,
Alphonse-Gabriel le.

IMPROVEMENT IN THE MANUFACTURE OF MANGANESE DIOXIDE BY ELECTROLYSIS. [1963] [15p]
5 refs

Order from OTS or SLA \$1.60

63-20331

Trans. of French patent 1, 253, 363, 2 Jan 61,
internat'l cl. B01 K-C01 g.

DESCRIPTORS: *Manganese compounds, *Dioxides,
*Electrolysis, Cathodes, Manufacturing methods

A method is proposed for the perfection in the production of manganese dioxide by electrolysis characterized by the fact that a systematic application of a double cathode is used. This double cathode has one part which is in direct contact with the bath and another part which is covered with natural MnO_2 . Or, what results in the same: a single cathode of which one part of the surface (Engineering-Chemical, TT, v. 10, no. 12) (over)

I. Dufour, R.
II. Verron, M.
III. Magonrou, A.-G. le
IV. Patent (France) 1 253 363

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Office of Technical Services

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Charles Dufraisee

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Trans. of French patent 903,462, gr. 6, cl. 4, appl.
10 Nov 43, granted, 15 Jan 45, pub. 5 Oct 45.

A high-power seaplane is described with means for vertical take-off and landing on ground, vertical alighting on water, stationary hovering, braking at low air speed and reverse motion. The aircraft consists of a hull and two monoplane wings, preferably curved upwardly, one disposed forward of the general center of gravity of the plane and the other behind the center, considering the plane in the direction of flight. The seaplane comprises lift propellers complementing the action of tractor propellers and also propulsion units whose axes may be oriented into longitudinal vertical plane. The total motive power of the plane is collected in an engine compartment or a central power station (Engineering--Aeronautical, TT, v. 5, no. 4) (over)

1. Vertical take-off planes
Design
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DESCRIPTORS: Ions, *Arsenic, *Phosphorus, *Sulfur, *Thallium compounds, Halides, Mass spectroscopy, Gas discharges, Nitrogen, Ammonia.

As part of a study of the capability of atoms and molecules to add an electron and be changed into free negative ions, an investigation was made of the composition of ions forming in a gas discharge in nitrogen and ammonia, and also in the vapors of arsenic, phosphorus, sulfur and of the halogen salts of thallium.

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DESCRIPTORS: Molecules, Ions, *Tellurium,
*Antimony, *Bismuth, *Sodium compounds, Iodides,
Dissociation, Energy, Gases, Atoms, Helium, Argon.

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pounds, *Electric currents, *Tungsten, Ionization,
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A phenomenon is discovered involving formation of
negative ions when KF , $NaCl$, KCl , $RbCl$, $NaBr$, KBr ,
 $RbBr$ and KJ molecules interact with an incandescent
tungsten surface. A method is given for determining
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